



DIVISION OF MINES
BOARD OF COAL MINING EXAMINERS
CERTIFICATION REQUIREMENTS
<http://www.dmme.virginia.gov/divisionmines.shtml>

UNDERGROUND DIESEL ENGINE MECHANIC

Article 3 of the Coal Mine Safety Laws of Virginia establishes requirements for certification of coal mine workers. The certification requirements are included in §45.1-161.24 through §45.1-161.41 in which the Board of Coal Mining Examiners is established for the purpose of administering the certification program. The Board has promulgated certification regulations 4 VAC 25-20, which set the minimum standards and procedures required for Virginia coal miner examinations and certifications.

CERTIFICATION CLASSIFICATION: **Underground Diesel Engine Mechanic*

This certification authorizes the holder to:

- Perform maintenance work on diesel engines in underground coal mines as recommended by the manufacturer of the engine.

APPLICATION/EXPERIENCE REQUIREMENTS:

- Application (BCME-1) and \$40.00 fee 5 working days prior to examination
- Six months experience as an underground diesel engine mechanic or complete a diesel engine mechanic course approved by the Division of Mines, or possess appropriately related work experience approved by the Chief of the Division of Mines
- Hold a General Miner Certification
- Current first aid training (MSHA 5000-23 Annual Retraining or New Miner Inexperienced Training acceptable)

EXAMINATION REQUIREMENTS: A score of 80% on each element of the examination

| ELEMENTS OF EXAM | NUMBER OF QUESTIONS |
|---|----------------------------|
| ▪ Emissions Testing (ET) | 20 |
| ▪ Fuels and Emissions (FM) | 20 |
| ▪ Internal Combustion (IC) | 20 |
| ▪ Preventive Maintenance (PM) | 20 |
| ▪ Federal Regulations (FR) | 20 |
| ▪ Virginia Rules & Regulations (VR) | 20 |
| ▪ First Aid (FA) | 20 |
| ▪ <u>Records</u> | |
| Weekly Examination (WE) | |
| Gas Detection - practical demonstration | |

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RECOMMENDED REFERENCE/STUDY MATERIALS:

- Coal Mine Safety Laws of Virginia
- BCME Requirements
- Rules & Regulations Governing the Use of Diesel Powered Equipment in Underground Coal Mines
- Mine Gases Packet
- First Aid for Miners Study Guide
- Title 30 CFR Parts 36, 75
- Diesel Engine Mechanic Study Guide
- Practical Ways to Reduce Exposure to Diesel Exhaustion in Mining – A Toolbox

The above mentioned study materials are available at the Department of Mines, Minerals and Energy's Big Stone Gap Office, Customer Assistance Center (276) 523-8233 and Keen Mountain Field Office (276) 498-4533.

***4 hours annual continuing education required to update this certification.**

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